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### NOTICE OF ALLOWANCE AND FEE(S) DUE

26646 7590 03/17/2008

KENYON & KENYON LLP ONE BROADWAY NEW YORK, NY 10004 EXAMINER YEE, DEBORAH

ART UNIT PAPER NUMBER

1793 DATE MAILED: 03/17/2008

 APPELCATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONTERMATION NO.

 10/511/589
 01/26/2006
 Shoichi Ohashi
 52433/777
 4059

TITLE OF INVENTION: DEFORMED WIRE FOR REINFORCING MARINE OPTICAL FIBER CABLE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/17/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NO THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THE APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

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KENYON & KENYON LLP ONE BROADWAY NEW YORK, NY 10004			I S a ti	baraby cartify that t	hie Good	e) Transmittal is baing	deposited with the United t class mail in an envelope above, or being facsimile tte indicated below.
							(Depositor's name)
							(Signature)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/511,589	01/26/2006	•	Shoichi Ohashi	hi 5243		52433/777	4059
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU		TE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0		\$1740	06/17/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
YEE, DE		I793	I48-320000				
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form FTIOSH 223 attached.  — "Fee Address" indication (or "Fee Address" Indication form FTIOSH47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.							
(A) NAME OF ASSI	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee pletion of this form is NC	data will appear on the VT a substitute for filing (B) RESIDENCE: (CI	e patent. If an assig an assignment. TY and STATE OR	COUN	TRY)	ocument has been filed for
4a. The following fee(s)  Issue Fee	are submitted:	4	<ul> <li>b. Payment of Fee(s): (F</li> <li>A check is enclose</li> </ul>		iny pre	viously paid issue fee s	hown above)
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,589	01/26/2006	Shoichi Ohashi	52433/777	4059
26646 75	590 03/17/2008		EXAM	IINER
KENYON & KENYON LLP		YEE, DEBORAH		
ONE BROADWAY NEW YORK, NY 10004			ART UNIT	PAPER NUMBER
			1793	

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 357 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 357 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## Notice of Allowability

Application No.	Applicant(s)		
10/511,589	OHASHI ET AL.		
Examiner	Art Unit		
Dohomh Voo	1702		

The MAILING DATE of this communication appears on the cover sheet with the correspondence address
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. of the Office or upon petition by the applicant. See 37 CFR 1.313 and MI	
This communication is responsive to	
2. ☑ The allowed claim(s) is/are <u>1 and 2</u> .	
	eceived. eceived in Application No s have been received in this national stage application from the
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be submitted. No INFORMAL PATENT APPLICATION (PTO-152) which gives reason</li> </ol>	
CORRECTED DRAWINGS ( as "replacement sheets") must be su     (a) including changes required by the Notice of Draftsperson's Pa     1) hereto or 2) to Paper No./Mail Date     (b) including changes required by the attached Examiner's Amen     Paper No./Mail Date     dentifying indical such as the application number (see 37 CFR 1.84(c)) seach sheet. Replacement sheet(s) should be labeled as such in the head     6. DEPOSIT OF and/or INFORMATION about the deposit of B     attached Examiner's comment regarding REQUIREMENT FOR THE	attent Drawing Review ( PTO-948) attached  dment / Comment or in the Office action of  should be written on the drawings in the front (not the back) of er according to 37 CFR 1.121(d).  IOLOGICAL MATERIAL must be submitted. Note the
Attachment(s)  1.  Notice of References Cited (PTO-892)  2.  Notice of Draftperson's Patent Drawing Review (PTO-948)	5. Notice of Informal Patent Application 6. Interview Summary (PTO-413), Paper Po./Mail Date
Information Disclosure Statements (PTO/SB/08),     Paper No./Mail Date 7/31/06; 12/22/06      Examiner's Comment Regarding Requirement for Deposit	7. Examiner's Amendment/Comment  8. Examiner's Statement of Reasons for Allowance
of Biological Material	9. ☐ Other .

Deborah Yee Primary Examiner Art Unit: 1793

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#### Allowable Subject Matter

Claims 1 and 2 are allowed.

- 2. The following is an examiner's statement of reasons for allowance: The deformed wire for reinforcing submarine optical fiber cable characterized by a defined alloy composition with a ferrite-pearlite or pearlite structure, having a number of shear bands cutting across a L-section center axial line (shear bands having inclination with respect to rolling direction) of 20/mm per unit length of the centre— axis, having an angle formed by the center axis and shear bands in the range of 10 to 90 degrees, having a tensile strength of 1800 MPa or more, having a sectional area forming an approximately fan shape, a plurality of the approximately fan shapes being combined to form a circular hollow cross-section for accommodating optical fibers, having at its surface a pebbled surface comprised of relief shapes of depths of 0.2 to 5 m, and having a weld at least at one location in the longitudinal direction, as recited by claims 1 and 2 is not taught or fairly suggested by the art of record.
- 3. In addition, claim 2 further recites a deformed steel wire having Si segregated so as to satisfy a Si maximum segregation degree of the cementite / ferrite interface in the range of 30 nm to ferrite phase side from the cementite and ferrite interface of the pearlite structure (maximum Si concentration/Si content of bulk in the range of 30 nm to ferrite phase side from cementite and ferrite interface) ≥ 1.1, which is not taught or suggested by the art of record.
- Applicants discovered that a fan-shaped deformed wire having increased tensile strength without breaks during working can be achieved by controlling the shear bands

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generated during working having inclination with respect to the rolling direction in the range of 10 to 90 degrees and having a number of shear bands cutting across an L-section center axial line of 20 / mm per unit length of the center axis,. Also breaks can be further prevented during deformed working by controlling the Si content between 0.5 to 1.5% and controlling Si content so as to satisfy the claimed Si maximum segregation degree to  $\geq$  1.1, breaks. The claimed limitations are critical and productive of new and unexpected results, as shown on pages 8 to 12, tables 1 to 6 and figures 2 to 7 of Applicants' specification.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Yee whose telephone number is 571-272-1253. The examiner can normally be reached on monday-friday 6:00 am-2:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Deborah Yee/ Primary Examiner Art Unit 1793

/DY/